Explorer 575 Wash

ORDERCODE 40192

SHOWELECTRONICS FOR PROFESSIONALS

Congratulations!
You have bought a great, innovative product from Showtec.
The Showtec Explorer 575 brings excitement to any venue. Whether you want simple plug-&-play action or a sophisticated DMX show, this product provides the effect you need.

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We design and manufacture professional light equipment for the entertainment industry.
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You can get some of the best quality, best priced products on the market from Showtec.
So next time, turn to Showtec for more great lighting equipment.
Always get the best -- with Showtec !

Thank you!

Showtec Explorer 575™ Product Guide

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WARNING

CAUTION!
Keep this device away from rain and moisture!
Unplug mains lead before opening the housing!

FOR YOUR OWN SAFETY, PLEASE READ THIS USER MANUAL CAREFULLY BEFORE YOUR INITIAL START-UP!

SAFETY INSTRUCTIONS

Every person involved with the installation, operation and maintenance of this device has to:

- be qualified
- follow the instructions of this manual

CAUTION! Be careful with your operations.
With a dangerous voltage you can suffer
a dangerous electric shock when touching the wires!

Before your initial start-up, please make sure that there is no damage caused by transportation. Should there be any, consult your dealer and do not use the device.

To maintain perfect condition and to ensure a safe operation, it is absolutely necessary for the user to follow the safety instructions and warning notes written in this manual.

Please consider that damages caused by manual modifications to the device are not subject to warranty.

This device contains no user-serviceable parts. Refer servicing to qualified technicians only.

IMPORTANT:

The manufacturer will not accept liability for any resulting damages caused by the non-observance of this manual or any unauthorized modification to the device.

- Never let the power-cord come into contact with other cables! Handle the power-cord and all connections with the mains with particular caution!
- Never remove warning or informative labels from the unit.
- Never use anything to cover the ground contact.
- Never run the device without lamp!
- Never ignite the lamp if the objective-lens or any housing-cover is open, as discharge lamps may expose and emit a high ultraviolet radiation, which may cause burns.
- Never lift the fixture by holding it at the projector-head, as the mechanics may be damaged. Always hold the fixture at the transport handles.
- Never look directly into the light source.
- Never leave any cables lying around.
- Never unscrew the screws of the rotating gobo, as the ball bearing will otherwise be opened.
- Do not insert objects into air vents.
- Do not connect this device to a dimmerpack.
- Do not switch the device on and off in short intervals, as this would reduce the lamp's life.
- Do not touch the device's housing bare-handed during its operation (housing becomes very hot).
- Do not shake the device. Avoid brute force when installing or operating the device.
- Only use device indoor, avoid contact with water or other liquids.

- Only operate the fixture after having checked that the housing is firmly closed and all screws are tightly fastened.
- Only operate the device after having familiarized with its functions.
- Avoid flames and do not put close to flammable liquids or gases.
- Always replace the lamp, when it is damaged or deformed due to the heat.
- Always keep case closed while operating.
- Always allow free air space of at least 50 cm around the unit for ventilation.
- Always disconnect power from the mains, when device is not used, before cleaning or when replacing lamp! Only handle the power-cord by the plug. Never pull out the plug by tugging the power-cord.
- Make sure that the device is not exposed to extreme heat, moisture or dust.
- Make sure that the available voltage is not higher than stated on the rear panel.
- Make sure that the power-cord is never crimped or damaged. Check the device and the power-cord from time to time.
- If the lens is obviously damaged, it has to be replaced. So that its functions are not impaired, due to cracks or deep scratches.
- If device is dropped or struck, disconnect mains power supply immediately. Have a qualified engineer inspect for safety before operating.
- If the device has been exposed to drastic temperature fluctuation (e.g. after transportation), do not switch it on immediately. The arising condensation water might damage your device. Leave the device switched off until it has reached room temperature.
- If your Showtec device fails to work properly, discontinue use immediately. Pack the unit securely (preferably in the original packing material), and return it to your Showtec dealer for service.
- For adult use only. Movinghead must be installed out of the reach of children. Never leave the unit running unattended.
- For replacement use lamps and fuses of same type and rating only.
- Allow time to cool down, before replacing lamp.
- This device falls under protection class I. Therefore it is essential to connect the yellow/green conductor to earth.
- During the initial start-up some smoke or smell may arise. This is a normal process and does not necessarily mean that the device is defective.
- Repairs, servicing and electric connection must be carried out by a qualified technician.
- WARRANTY: Till one year after date of purchase.

CAUTION ! EYEDAMAGES !.
Avoid looking directly into the light source.
(meant especially for epileptics) !

OPERATING DETERMINATIONS

This device is not designed for permanent operation. Consistent operation breaks will ensure that the device will serve you for a long time without defects.

The minimum distance between light-output and the illuminated surface must be more than 2 meters.

The maximum ambient temperature t_a must never be exceeded.

If this device is operated in any other way, than the one described in this manual, the product may suffer damages and the warranty becomes void.
Any other operation may lead to dangers like short-circuit, burns, electric shock, lamp explosion, crash etc. You endanger your own safety and the safety of others!

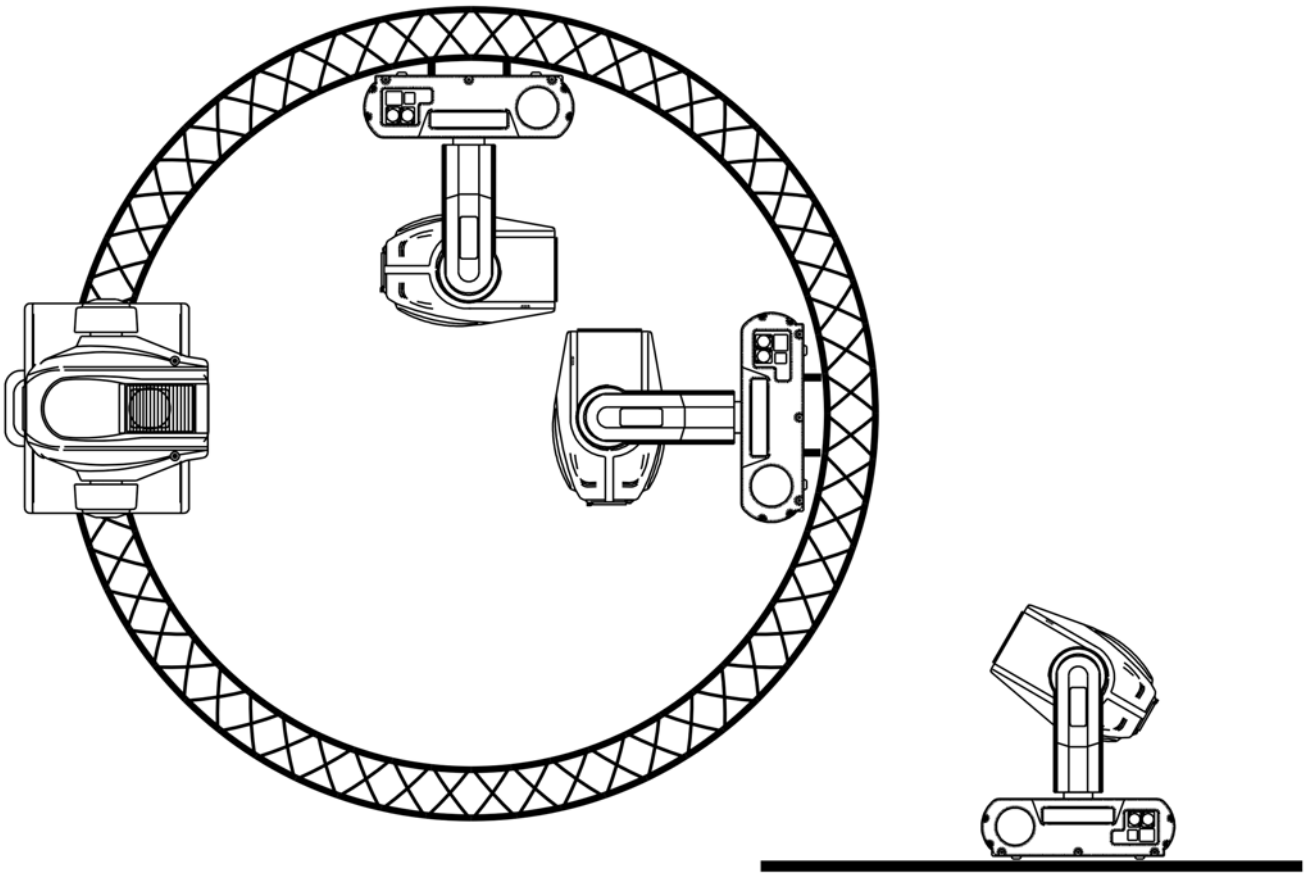
Rigging

Please follow the European and national guidelines concerning rigging, trussing and all other safety issues.

Do not attempt the installation yourself !
Always let the installation be carried out by an authorized dealer !

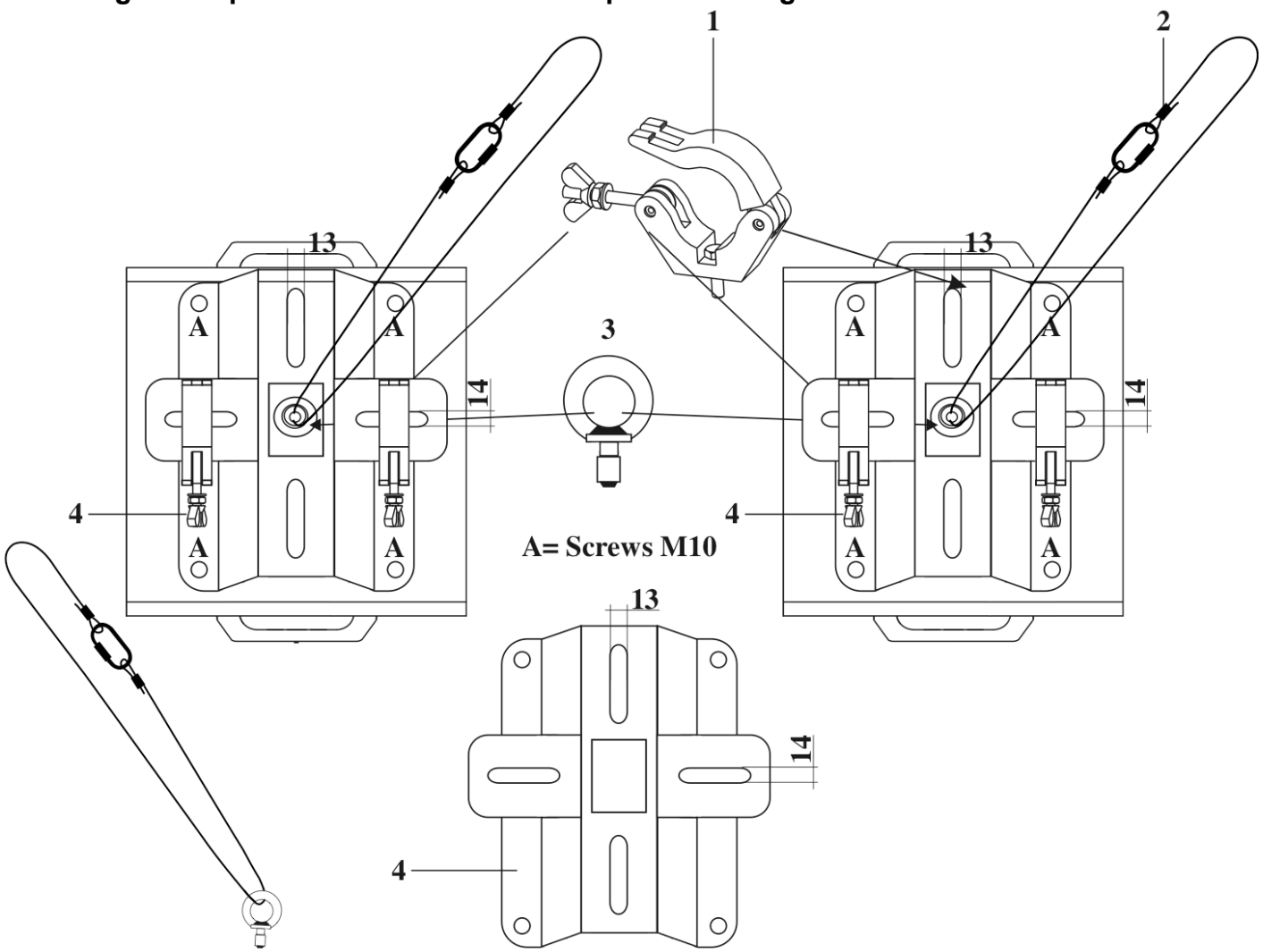
Procedure:

- If the projector is lowered from the ceiling or high joists, professional trussing systems have to be used.
- Use a clamp to mount the projector, with the mounting-bracket, to the trussing system.
- The projector must never be fixed swinging freely in the room.
- The installation must always be secured with a safety attachment, e.g. an appropriate safety net or safety-cable.
- When rigging, derigging or servicing the projector, always make sure, that the area below the installation place is blocked and staying in the area is forbidden.



The Explorer can be placed on a flat stage floor or mounted to any kind of truss by a clamp.

Mounting a clamp to the underside of the Explorer moving head



1) Clamp
2) Safety-cable
3) Eye bolt
4) Mounting plate

Improper installation can cause serious damage to people and property !

Connection with the mains

Connect the device to the mains with the power-plug.
Always pay attention, that the right color cable is connected to the right place.

Cable	Pin	International
BROWN	FASE	L
BLUE	NUL	N
YELLOW/GREEN	EARTH	⏚

Make sure that the device is always connected properly to the earth!

Description of the device

Features

The Showtec Explorer 575 Wash is a moving head with high output and great effects.
• 1 Color-wheel with 4 colored gobos, 2 color Temp. filters, 1 UV filter and open
• 1 CMY color Effect-wheel
• DMX-control via standard DMX-controller
• 16 DMX-control channels required
• Strobe-effect with adjustable speed (1 - 10 flashes/sec.)
• Motorized zoom 7º -- 28º
• Pan 0º -- 530º
• Tilt 0º -- 280º
• Lamp MSR 575
• Fuse T10A / 250V

Overview

Fig. 1

1) Lens
2) Display
3) Menu / Select buttons

Backside

Fig. 2

4) DMX signal connector (OUT)
5) DMX signal connector (IN)
6) ON / OFF
7) Fuse

Installation

Installing the Lamp

The Showtec Explorer 575 uses the MSR 575 (ordercode 80915 / /80915O / 80923) bulb as manufactured by all popular manufacturers. Use only the appropriate lamp for your unit.
Note that, product versions that use other lamps, may be offered in the future. Check your product specification label for information.
Always disconnect from electric mains power supply before changing lamps.
The lamp has to be replaced when it is damaged or deformed due to the heat.
Do not install lamps with a higher wattage! Lamps with a higher wattage generate temperatures the device was not designed for.
Damages caused by non-observance are not subject to warranty.

Procedure :

1. Loosen the 3 screws (X, Y, Z) on the backside of the lamp cover. See Backpanel Fig. 4
2. Gently pull out the lamp board.
3. Read lamp instructions. Do not touch the lamp bulb glass. (See Figure 3.)
Oil on hands shortens the lamp life. (If you touch the bulb glass, wipe off the glass with a clean, lint-free towel and rubbing alcohol.).
4. Insert the lamp pins into the small holes in the lamp socket. You can adjust the distance between the lamp and the lens (screw A) on the back.
5. Put the backpanel back and fasten the screws snugly.

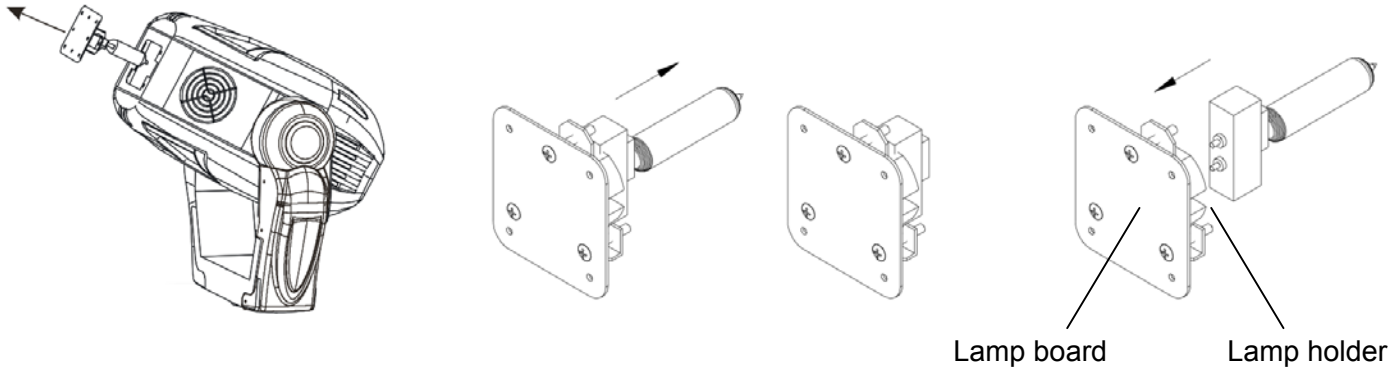
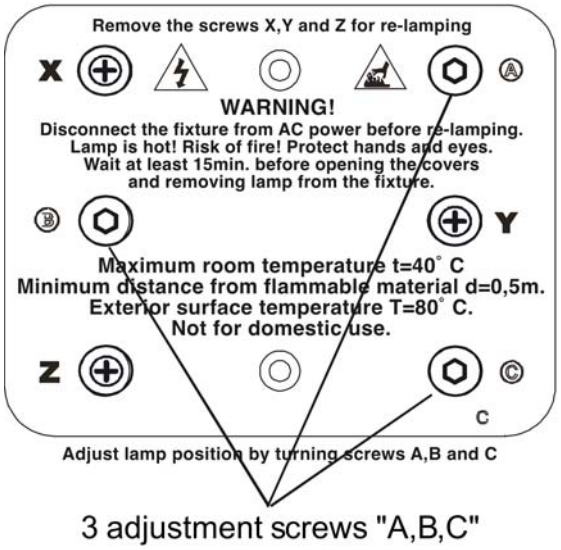


Fig. 3


Remove the screws X,Y and Z for re-lamping
X
A
WARNING!
Disconnect the fixture from AC power before re-lamping.
Lamp is hot! Risk of fire! Protect hands and eyes.
Wait at least 15min. before opening the covers
and removing lamp from the fixture.
B
Y
Maximum room temperature t=40° C
Minimum distance from flammable material d=0,5m.
Exterior surface temperature T=80° C.
Not for domestic use.
Z
C
C
Adjust lamp position by turning screws A,B and C
3 adjustment screws "A,B,C"

Backside Lamp Board

Fig. 4

Lamp Adjustment

You can adjust the lamp's position by turning the screws A, B, C.

The lamp position is set in the factory. As the lamps, which can be used, differ from manufacturer to manufacturer, it can be necessary to readjust the position. The lamp must be readjusted e.g., if the light does not seem to be evenly distributed within the ray of light.

Ignite the lamp and focus the ray of light on an even surface (wall). As the optimal distance between the lamp and the lens was already set during the installation with screw "A", only the "Hot Spot" (the brightest part of the ray of light) must be centered. Turn in addition screw "B" and "C". If the Hot Spot appears too bright, you can weaken its intensity, by moving the lamp closer to the reflector. Turn in addition screw "A", until the light is evenly distributed. If the light at the outside edge of the ray of light appears brighter as in the center, the lamp is too close to the reflector. In this case move the lamp away from the reflector, until the light is evenly distributed and the ray of light appears bright enough.

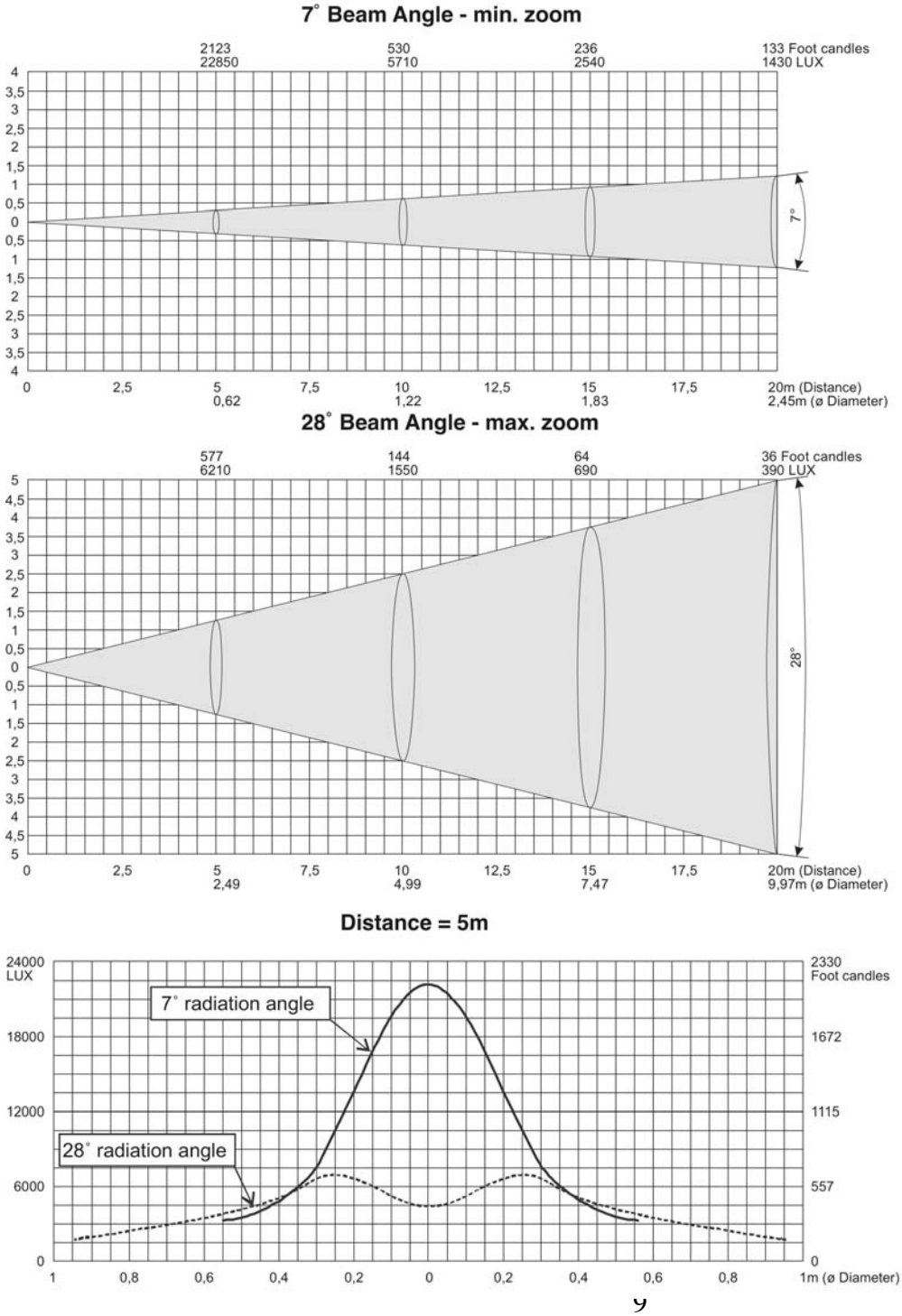


Fig. 5

Set Up and Operation

Follow the directions below, as they pertain to your preferred operation mode.
Before plugging the unit in, always make sure that the power supply matches the product specification voltage. Do not attempt to operate a 120V specification product on 230V power, or vice versa.

One Explorer

1. Fasten the moving head onto firm trussing (Use a 30-kg rated or stronger C-clamp fastened onto the Explorer). Leave at least 1 meter on all sides for air circulation.
2. Plug one end of the electric mains power cord into the IEC socket on the unit. Then plug the other end of the cord into a proper electric power supply socket.
3. Use the Mode-button to set the fixture to RUN and choose PRG1. The Explorer will now play its built-in program.

Multiple Explorers

1. Fasten the effect light onto firm trussing (Use a 30-kg rated or stronger C-clamp fastened onto the Explorer). Leave at least 1 meter on all sides for air circulation.
2. Use a 3-p XLR cable to connect the Explorers and other devices.

Occupation of the XLR-connection:

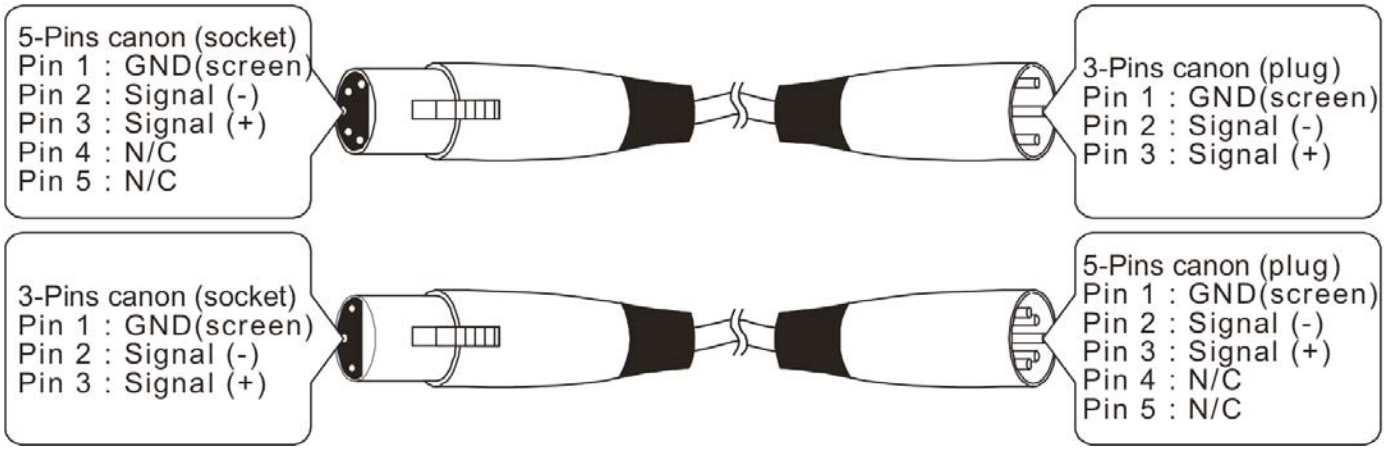
DMX-OUTPUT
XLR mounting-socket:

1 - Ground
2 - Signal (-)
3 - Signal (+)

DMX-input
XLR mounting-plug

1 - Ground
2 - Signal (-)
3 - Signal (+)

The transformation of the controller line of 3 pins and 5 pins (plug and socket)


5-Pins canon (socket)
Pin 1 : GND(screen)
Pin 2 : Signal (-)
Pin 3 : Signal (+)
Pin 4 : N/C
Pin 5 : N/C
3-Pins canon (plug)
Pin 1 : GND(screen)
Pin 2 : Signal (-)
Pin 3 : Signal (+)
3-Pins canon (socket)
Pin 1 : GND(screen)
Pin 2 : Signal (-)
Pin 3 : Signal (+)
5-Pins canon (plug)
Pin 1 : GND(screen)
Pin 2 : Signal (-)
Pin 3 : Signal (+)
Pin 4 : N/C
Pin 5 : N/C

3. Link the units as shown in (figure 6), Connect a DMX signal cable from the first unit's DMX "out" socket to the second unit's "in" socket. Repeat this process to link the second, third, and fourth units.
4. Supply electric power: Plug electric mains power cords into each unit's IEC socket, then plug the other end of the mains power cord into proper electric power supply sockets, starting with the first unit. Do not supply power before the whole system is set up and connected properly.

Multiple Explorers Set Up

DMX-Set up

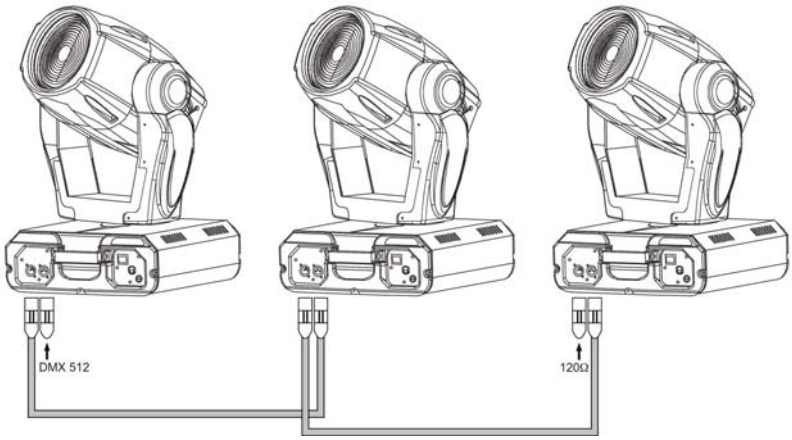


Fig. 6

Note : Link all cables before connecting electric power

DMX Protocol

Channel 1 - Horizontal movement (Pan)
Push the slider up, in order to move head horizontally (PAN).
Gradual head adjustment from one end of the slider to the other (0-255, 128-center).
The head can be turned by 540°and stopped at any position you wish.

Channel 2 - Vertical movement (Tilt)
Push the slider, up in order to move head vertically (TILT).
Gradual head adjustment from one end of the slider to the other (0-255, 128-center).
The head can be turned by 280°and stopped at any position you wish.

Channel 3 - Pan fine 16 bit

Channel 4 - Tilt fine 16 bit

Channel 5 – Scan Speed Adjustment

0-255	Gradual adjustment Scan Speed from fast to slow

Channel 6 – Keep

0-255	Keep this Color setting

Channel 7 – Color-wheel

0-24	Open / white
25-49	Red
50-74	Blue
75-99	Green
100-124	Orange
125-149	Increase Color Temp. slip (3200ºK)
150-174	Increase Color Temp. slip (6000ºK)
175-199	UV wave filter
200-255	Rainbow effect from slow to fast

Channel 8 – CYAN

0-255	Gradual adjustment Cyan from 0 – 100%

Channel 9 – MAGENTA

0-255	Gradual adjustment Magenta from 0 – 100%

Channel 10 – YELLOW

0-255	Gradual adjustment Yellow from 0 – 100%

Channel 11 – CMY color change speed

0-255	Gradual adjustment color change speed from fast to slow

Channel 12 – CMY Color Effect-wheel

0-7	Open / White CMY under Control
8-13	Open / White
14-28	Color 1
29-43	Color 2
44-58	Color 3
59-73	Color 4
74-88	Color 5
89-103	Color 6
104-118	Color 7
119-133	Color 8
134-148	Color 9
149-163	Color 10
164-178	Color 11
179-193	Color 12
194-208	Color 13
209-223	Color 14
224-238	Color 15
239-253	Color 16
254-255	Color 17

Channel 13 – Effect-wheel

0-49	Beam out
50-99	Lambency
100-255	Radiate Lambency clockwise

Channel 14 – Zoom

0-255	Gradual adjustment Zoom from 7º to 28º

Channel 15 – Shutter, strobe

0-9	Shutter
10-40	Beam out
41-250	Strobe effect from slow to fast
251-255	Beam out

Channel 16 – Dimmer intensity

0-255	Gradual adjustment dimmer intensity from 0-100%

Control Panel

When the indicator light is on, means the Explorer is working

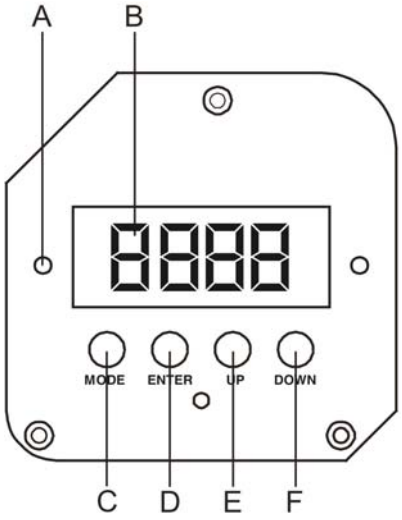


Fig. 7

A. LED
B. Display
C. [MODE] Button
D. [ENTER] Button
E. Up Button
F. Down Button

Control Mode

The fixtures are individually addressed A001 - A511 on a data-link and connected to the controller.
The fixtures respond to the DMX signal from the controller. (When you select the DMX address and save it, the controller will display the saved DMX address the next time.)

DMX Addressing

The control panel on the front side of the base allows you to assign the DMX fixture address, which is the first channel from which the Explorer will respond to the controller.
Please note when you use the controller, the unit has **16** channels.
When using multiple Explorers, make sure you set the DMX addresses right.
Therefore, the DMX address of the first Explorer should be **1(A001)**; the DMX address of the second Explorer
should be **1+16=17(A017**); the DMX address of the third Explorer should be **17+16=33(A033)**, etc.
Please, be sure that you don't have any overlapping channels in order to control each Explorer correctly.
If two or more Explorers are addressed similarly, they will work similarly.
For address settings, please refer to the instructions under "Addressing' (menu A001)

Controlling:

After having addressed all Explorer fixtures, you may now start operating these via your lighting controller.
Note: After switching on, the Explorer will automatically detect whether DMX 512 data is received or not. If there is no data received at the DMX-input, the "**LED** " on the control panel will not flash.
The problem may be:
- The XLR cable from the controller is not connected with the input of the Explorer.
- The controller is switched off or defective, the cable or connector is detective, or the signal wires are swapped in the input connector.

Note: It's necessary to insert a XLR termination plug (with 120 Ohm) in the last fixture in order to ensure proper transmission on the DMX data link.

Remotely controllable functions

Colour-wheel
The Explorer contains a colour-wheel with 4 colored gobos, 2 color Temp. filters, 1 UV filter and one white.

Shutter/Dimmer/Strobe
The dimming (0-100%) is provided by a simple mechanical shutter unit. This unit may also be used for strobe effect (1-10 flashes per second).

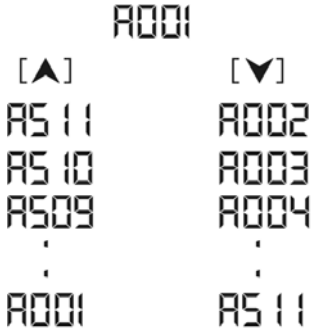
Stand-alone Mode
The fixture can execute 1 pre-set program.
Use the Mode-button to set the fixture to RUN and choose PRG1. The Explorer will now play its built-in program.

For synchronous operation of multiple fixtures the fixtures must all be connected on a data-link.
Note: Disconnect the fixtures from the DMX controller before operating, otherwise data collisions can occur and the fixtures will not work properly!
It's necessary to insert the XLR termination plug (with 120 Ohm) into the input of the first fixture and into the output of the last fixture in the data-link, in order to ensure proper transmission on the data link.

Addressing

With this menu you can set the DMX address or address a fixture as a master/slave.

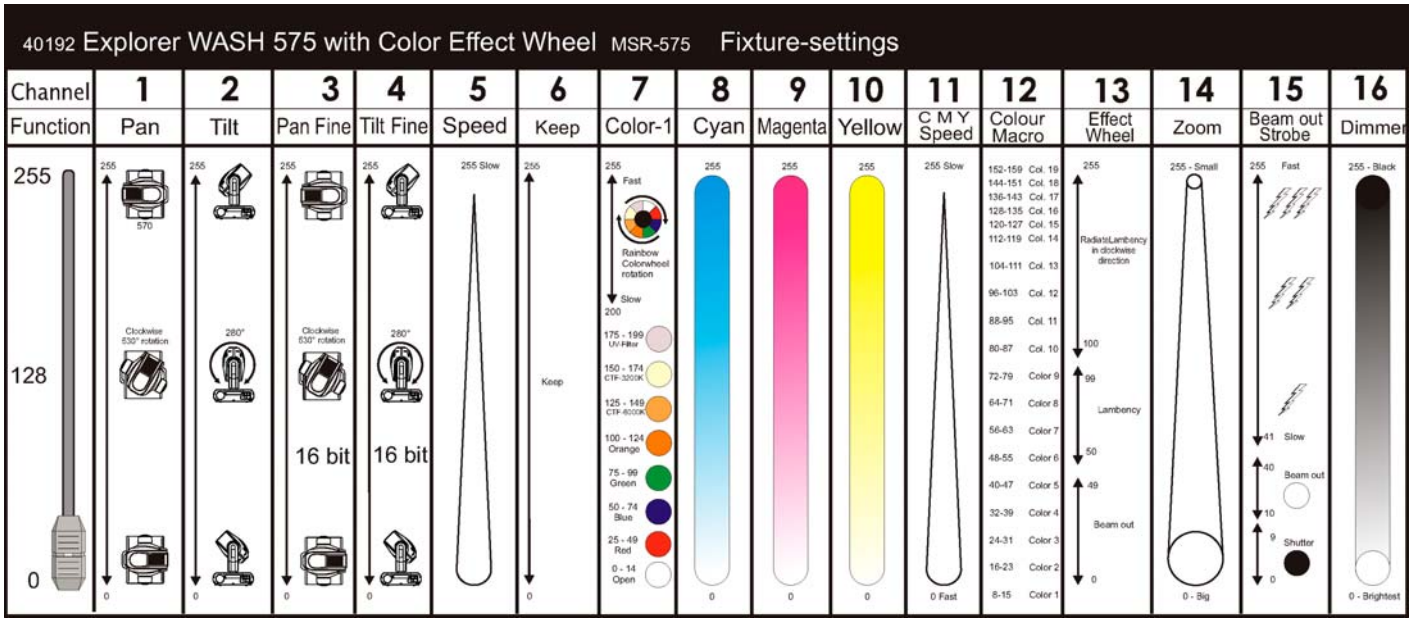
A001 - DMX addressing
1) Press ⤢ , until the display shows A001.
2) Press ↵ to confirm, the display will show PASS(with actually stored address).
And press ▲ and ▼ to select the required address A001 - A511, press ↵ to confirm.



3) Press ⤢ , the chosen address is shown on the display.

Function Table:

Mode	Function	Condition	
PAN	Pan movement in positive or negative direction	YES--negative direction	
tILt	Vertical movement in positive or negative direction	YES--negative direction	
Addr	Address code set		
rESt	Reset	YES--reset	
COLI	Rainbow colorwheel change color linear or stepping	YES--linear	
rUN	Working mode	dMCO	DMX 512 mode
		PrG	Automatic
LAMP	Lamp switch	On	Lamp On
		OFF	Lamp Off



Maintenance

The operator has to make sure that safety-relating and machine-technical installations are to be inspected by an expert after every four years in the course of an acceptance test.
The operator has to make sure that safety-relating and machine-technical installations are to be inspected by a skilled person once a year.

The following points have to be considered during the inspection:
1. All screws used for installing the device or parts of the device have to be tightly connected and must not be corroded.
2. There may not be any deformations on housings, fixations and installation spots.
3. Mechanically moving parts like axles, eyes and others may not show any traces of wearing.
4. The electric power supply cables must not show any damages or material fatigue.

The Showtec Explorer 575 requires almost no maintenance. However, you should keep the unit clean. Otherwise, the fixture's light-output will be significantly reduced. Disconnect the mains power supply, and then wipe the cover with a damp cloth. Do not immerse in liquid. Wipe lens clean with glass cleaner and a soft cloth. Do not use alcohol or solvents.
The front PC lens will require weekly cleaning, as smoke-fluid tends to build up residues, reducing the light-output very quickly.
The cooling-fans, dichroic colour-filters, the gobo-wheels, the gobos and the internal lenses should be cleaned monthly with a soft brush. To ensure proper functioning of the gobowheel, we recommend lubricating the wheel every 6 months. The quantity of oil must not be excessive.
Please clean internal components once a year with a light brush and vacuum cleaner.
Keep connections clean. Disconnect electric power, and then wipe the DMX and audio connections with a damp cloth. Make sure connections are thoroughly dry before linking equipment or supplying electric power.

Changing the Lamp
1. Disconnect mains power supply. Loosen the 3 screws (X, Y, Z) on the backside of the lamp cover. See Backpanel Fig. 4.
2. Gently pull out the lamp board.
3. Follow directions for installing a new lamp, page 8.

Replacing a Fuse
Power surges, short-circuit or inappropriate electrical power supply may cause a fuse to burn out. If the fuse burns out, the product will not function whatsoever. If this happens, follow the directions below to do so.
1. Unplug the unit from electric power source.
2. Insert a screwdriver into the slot in the fuse cover. Turn the screwdriver to the left, at the same time gently push a bit (Turn and Push). The fuse will come out.
3. Remove the used fuse. If brown or unclear, it is burned out.
4. Insert the replacement fuse into the holder where the old fuse was. Reinsert the fuse cover. Be sure to use a fuse of the same type and specification. See the product specification label for details.

Troubleshooting

No Light, No Movement - All Products

This troubleshooting guide is meant to help solve simple problems. If a problem occurs, carry out the steps below in sequence until a solution is found. Once the unit operates properly, do not carry out following steps.

If the light effect does not operate properly, refer servicing to a technician.

Response: Suspect three potential problem areas: the power supply, the lamp, the fuse.

1. Power supply. Check that the unit is plugged into an appropriate power supply.

2. The lamp. Replace the old lamp with a new one with the same specifications. See page 8 for replacing lamps.

3. The fuse. Replace the fuse. See page 16 for replacing the fuse.

No Response to DMX

Response: Suspect the DMX cable or connectors, a controller malfunction, a light effect DMX card malfunction.

1. Check the DMX cable: Unplug the unit; change the DMX cable; then reconnect to electrical power. Try your DMX control again.

2. Determine whether the controller or light effect is at fault. Does the controller operate properly with other DMX products ? If not, take the controller in for repair. If so, take the DMX cable and the light effect to a qualified technician.

See next page for more problem solving.

Problem	Probable cause(s)	Remedy
One or more fixtures are completely dead.	No power to the fixture	·Check that power is switched on and cables are plugged in.
	Primary fuse blown.	·Replace fuse.
Fixtures reset correctly, but all respond erratically or not at all to the controller.	The controller is not connected.	·Connect controller.
	3-pin XLR Out of the controller does not match XLR Out of the first fixture on the link (i.e. signal is reversed).	·Install a phase reversing cable between the controller and the first fixture on the link.
Fixtures reset correctly, but some respond erratically or not at all to the controller.	Poor data quality	·Check data quality. If much lower than 100 percent, the problem may be a bad data link connection, poor quality or broken cables, missing termination plug, or a defective fixture disturbing the link.
	Bad data link connection	·Inspect connections and cables. Correct poor connections. Repair or replace damaged cables.
	Data link not terminated with 120 Ohm termination plug.	·Insert termination plug in output jack of the last fixture on the link.
	Incorrect addressing of the fixtures.	·Check address setting.
	One of the fixtures is defective and disturbs data transmission on the link.	·Bypass one fixture at a time until normal operation is regained: unplug both connectors and connect them directly together. ·Have the defective fixture serviced by a qualified technician.
	3-pin XLR Out on the fixtures does not match (pins 2 and 3 reversed).	·Install a phase-reversing cable between the fixtures or swap pin 2 and 3 in the fixture, that behaves erratically.
Shutter closes suddenly	The color wheel, gobo wheel, or a gobo has lost its index position and the fixture is resetting the effect.	·Contact a technician for servicing if the problem persists.
No light	The power supply settings do not match local AC voltage and frequency.	·Disconnect fixture. Check settings (page 8) and correct if necessary.
	Lamp missing or blown	·Disconnect fixture and replace lamp.
Lamp cuts out intermittently.	Fixture is too hot.	·Allow fixture to cool. ·Clean fan. ·Make sure air vents at control panel and front lens are not blocked. ·Turn up the air conditioning.
	The power supply settings do not match local AC voltage and frequency.	·Disconnect fixture. Check settings (page 8) and correct if necessary.

Product Specification

Model: Showtec Explorer 575
Voltage: 240V-50Hz (CE)
Power: 850W
Fuse: 10A / 250V
Weight: 35,5 kg

Operation and Programming
Signal pin OUT: pin 1 earth, pin 2 (-), pin 3 (+)
Set Up and Addressing: LED control panel
DMX Channels: 16
Signal input 3-pin XLR male
Signal output 3-pin XLR female

Lamp
Allowed lamp models*:
Philips MSR 575 (1000 hr; 6000K) ordercode 80915
Osram HSR 575/2 (750 hr) ordercode 80915O
Philips MSR 575 (1000 hr; 7200K) ordercode 80923
Control: Automatic and DMX remote ON / OFF

Electro-mechanical effects
Colors: 7 colors plus white
All lenses are anti-reflection coated
High luminous-efficiency parabolic system
Strobe-effect with variable speed (1 flash -- 10 flashes/sec.)
DMX-control via standard DMX-controller
Pan 0º -- 530º
Tilt 0º -- 280º
Automatic Pan / Tilt position correction
Wheel control: auto-electronic reset
Beam Angles: 7º - 28º
Max. ambient temperature t_a: 40°C; Max. housing temperature t_B: 80°C
Fresnel lens: 200mm (diameter)

Minimum distance:
Minimum distance from flammable surfaces: 0.5m
Minimum distance to lighted object: 2m

*: Versions for other lamps may be produced. Please check the specification label on your product.

CE

Design and product specifications are subject to change without prior notice.

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